Leica Geosystems Construction Catalogue

Tools for any site

PART OF HEXAGON

- when it has to be **right**

Leica Geosystems

PROTECT by Leica Geosystems

Because the best products come with the best service

PROTECT by Leica Geosystems

Lifetime Warranty | No Cost Period | Certified Quality | Swiss Technology

Our products are built to last!

Understanding construction and our customers' needs has enabled us to develop product solutions for all positioning, measuring, levelling, aligning and plumbing tasks on site. Our products provide the highest levels of reliability, accuracy and ruggedness –even under the roughest jobsite conditions, making our customers more productive and successful.

With Protect by Leica Geosystems we offer a best-in-class service where customers can count on us, anytime, anywhere.

Lifetime Manufacturer's Warranty

Warranty coverage for the entire usage time of the product. Free of charge repair or replacement for all products that suffer defects as a result of faults in materials or manufacturing,for the entire life of the product.

No Cost Period

Guaranteed best-in-class service should your product become defective or require servicing under normal conditions of use, as described in the user manual, at no additional charge to you.

Our service includes:

- Repair or replacement of all defective parts, including labour time
- Adjustment and calibration
- Thorough functional test and safety check
- Maintenance, cleaning of product and carrying case

Your serviced product will be returned to you as good as new!

Certified Quality

Leica Geosystems runs calibration laboratories (No. SCS079) and a test laboratory (No. STS549). Both are fully accredited by the SAS, the Swiss Accreditation Service. The calibration and test certificates issued by Leica Geosystems are officially and internationally recognised for horizon, angle, distance, frequency and laser classification. This confirmation of precision guarantees the highest possible reliability for our products. All laboratories are regularly controlled by an independent national institution according to ISO 17025.

Swiss Technology

Swiss Technology creates confidence. Our worldwide operations are in state-of-the-art production centres, where Swiss precision, extraordinary craftsmanship, and cutting-edge technology go hand-in-hand. Continuous and extensive tests throughout all stages of development and production ensure our products meet the highest standards for precision and quality.

We are always there for you.

With a global network consisting of 260 service centres in 87 countries, Leica Geosystems has a powerful network to support you.

Find out more on:
www.leica-geosystems.com/protect

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Leica
4 x
2,7°
1.653 m
ON
DIST
FUNC
C
OFF
DISTO™ D810
touch

Laser Distance Meter

Quick and efficient
Measure distances and tilts at the touch of a button, in just a few seconds! Saving you time and money.

Precise and reliable
Measure distances to millimetre accuracy! Laser technology makes it possible.

Versatile and functional
The perfect solution for every measuring situation. With more flexibility for you.

Safe and modern
Avoid dangerous measuring situations at work. Use today's modern technology.

06–07 Leica DISTO™ Family

12–13 Leica 3D Disto

Leica DISTO™ Family

The right one for each job

Leica DISTO™ D110

Small size, big possibilities

1 Leica DISTO™ D110

The Leica DISTO™ D110 is the first laser distance meter with Bluetooth® Smart that fits to a pocket. Its handy design with a pocket clip and simple functions make it a perfect tool for anyone that wants to take effortless measurements.

Article no. 808088

1

Leica DISTO™ D2

The compact base model

2 Leica DISTO™ D2

The Leica DISTO™ D2 – the compact and handy base model – was specifically designed for indoor applications. Flip-out end-piece, shortcut keys for addition, subtraction, area and volume calculation make measuring fast and very reliable.

Article no. 762200

2

Leica DISTO™ D210

Be even more professional

3 Leica DISTO™ D210

The compact and handy entry-level model has many interesting functions and is still simple to use. Addition and subtraction, area and volume calculations for rapid and reliable site measurement. The last 10 results are stored and the measuring reference for the flip-out end-piece is switched automatically.

Article no. 783648

3

Leica DISTO™ X310

The extremely tough and multifunctional laser distance meter

4 Leica DISTO™ X310

The Leica DISTO™ X310 is IP 65 certified – dust tight and jet water protected. Furthermore it has been tested by dropping from heights of up to 2 m. Thanks to the integrated tilt sensor, precise indirect distance and height measurements are possible. The Leica DISTO™ X310 guarantees reliable measurements even under extreme conditions.

Article no. 790656

4

Leica DISTO™ D3a BT

The laser distance meter with Bluetooth® Technology and Smart Horizontal Mode™

5 Leica DISTO™ D3a BT

The Leica DISTO™ D3a BT offers Bluetooth® 2.1 technology for transferring data from the DISTO™ to PC or Android devices. With its integrated inclination sensor, horizontal distances can be automatically calculated if the instrument is inclined during a measurement – Smart Horizontal Mode (™).

Article no. 776747

5

Leica DISTO™ D510

Precise targeting and reliable outdoor measurement

6 Leica DISTO™ D510

The Leica DISTO™ D510 stands for easy and effortless outdoor distance measurement. The unique combination of digital Pointfinder and 360° tilt sensor allows measurements which are not possible with conventional distance meters. In addition, with Bluetooth® Smart and attractive free apps, you are prepared for the future.

Article no. 792290

6

Leica DISTO™ D810 touch

The smartest solution to measure and document

7 Leica DISTO™ D810 touch

The Leica DISTO™ D810 touch is the world's first laser distance meter with a touch screen and revolutionary "measure with a picture" feature. The integrated camera can be used to take pictures and download them to a computer. The high level of functionality is perfectly completed by the smart free app Leica DISTO™ sketch.

Article no. 792297

7

Leica DISTO™ Family

The right one for each job

8 Leica DISTO™ D210 and Lino L2 case – The professional package for easy measuring and alignment

This package was specifically designed for interior applications. It combines everything that you will need for accurate and reliable measuring and alignment. The laser distance meter Leica DISTO™ D210, the cross line laser Lino L2 and the tripod TRI 70 are stored safely and ready-to-use in the robust, attractive and functional carrying case.

Article no. 806656

9 Leica DISTO™ D810 touch case – The professional package for convenient aiming and precise measurement

This package consists of the Leica DISTO™ D810 touch, the Leica FTA360 adapter and the Leica tripod TRI 70. In combination with the FTA360 adapter the Leica DISTO™ D810 touch becomes a highly precise measuring station. Everything comes together in an attractive and robust carrying case.

Article no. 806648

Technical Data	DISTO™ D110	DISTO™ D2	DISTO™ D210	DISTO™ X310	DISTO™ D3a BT	DISTO™ D510	DISTO™ D810 touch
Accuracy. typ.	±1.5 mm	±1.5 mm	±1 mm	±1 mm	±1 mm	±1 mm	±1 mm
Range	0.2 – 60 m	0.05 – 60 m	0.05 – 80 m	0.05 – 120 m	0.05 – 100 m	0.05 – 200 m	0.05 – 200 m
Measuring units	m, ft, in	m, ft, in	m, ft, in	m, ft, in	m, ft, in	m, ft, in,	m, ft, in
Tilt sensor				360°	±45°	360°	360°
Colour display with Pointfinder						4× zoom	4× zoom
Data interface*	Bluetooth® Smart				Bluetooth® 2.1	Bluetooth® Smart	Bluetooth® Smart
Batteries	Type AAA 2 × 1.5 V	Type AAA 2 × 1.5 V	Type AAA 2 × 1.5 V	Type AAA 2 × 1.5 V	Type AAA 2 × 1.5 V	Type AA 2 × 1.5 V	Li-Ion battery
Dimensions	120 × 37 × 23 mm	111 × 42 × 23 mm	114 × 50 × 27 mm	122 × 55 × 31 mm	127 × 49 × 27,3 mm	143 × 58 × 29 mm	164 × 61 × 31 mm
Weight with batteries	92 g	90 g	126 g	155 g	150 g	198 g	238 g
Memory		10 results	10 results	20 displays	20 displays	30 displays	30 displays
Multifunctional end-piece		Manual	Automatic recognition	Automatic recognition	Automatic recognition	Automatic recognition	Automatic recognition
No cost period	2 years / 3 years after registration within 8 weeks of purchase						
Protection class	IP 54	IP 54	IP 54	IP 65	IP 54	IP 65	IP 54

* System requirements and other details can be found at www.disto.com

Leica DISTO™

Apps bring the office to the construction site

The smart apps “Leica DISTO™ sketch” and “Leica DISTO™ transfer” are the ideal interface between the Leica DISTO™ with Bluetooth® and a smartphone or tablet. They allow sketches or photographs to be created and dimensioned quickly, or the transfer of measurements into a chart. The data is subsequently able to be sent directly to the office. This simplifies and speeds up working practices.

Download on the App Store

GET IT ON Google play

Create a scale drawing
Draw a sketch simply using your finger on the touch screen of your smartphone or tablet. Your freehand lines will be automatically straightened. The results of your measurements can be just as easily assigned to the relevant lines. The "Auto-scale" function adjusts the line lengths automatically to create a scale drawing.

Dimension objects in pictures
If you take a photograph with your smartphone or tablet, you can transfer the dimensions from the Leica DISTO™ using Bluetooth® Smart and add the appropriate distances to the picture. This allows you to document all measurement results and then assign them correctly in the office.

Integrating detailed sketches
Create and dimension a sketch or an image and add it to an existing sketch, e.g. to a plan view. Any quick sketch can be augmented with detailed information. This offers a completely new way of recording information in documentation.

Checking construction drawings
Compare a PDF drawing that you have opened on your smartphone or tablet with reality and add any measurements taken, notes, sketches or pictures. This allows you to have all the information together in a single document.

Leica DISTO™ Family

Accessories supplied with / optional

1 Leica TRI 70 Tripod

The small portable tripod is intended for everyday use. Its features include easy fine adjustment and a bubble level. Extendible length from 0.40 m to 1.15 m. Ideal with the Leica TA360 or FTA360 adapter.

Article no. 794963

2 Universal Quick Charger

For charging 4 rechargeable batteries; type AA or AAA; With 4 adapters for worldwide use; Including 4 rechargeable batteries type AA / 2300 mAh.

Article no. 782669

3 UC20 Universal Quick Charger

For charging 2 rechargeable batteries; type AAA; with 4 adapters for worldwide use; Including 2 rechargeable batteries type Micro AAA NiMH / 800 mAh.

Article no. 788956

4 Leica TRI 100 Tripod

Quality tripod with bubble level, very easy fine adjustment. Extendable length from 0.70 m to 1.74 m.

Article no. 757938

5 Leica LSA360 Adapter

For precise indirect measurements with the tilt sensor from the tripod; tilt axis and laser beam are in one plane (elimination of tilt axis error). Suitable for a set-up pole with a diameter of 11–35 mm (0.45"–1.35").

Article no: 769459

6 Leica TA360 Adapter

Convenient adapter for easy and precise targeting. This minimises deviations when using indirect measurement. Especially suitable for the Leica DISTO™ D3aBT and D510 in combination with the Leica TRI 70 and TRI 100 tripod.

Article no. 778359

7 Leica GZM26 Target Plate, large

Grey side for short and brown side for long distance measurements.
Size: 210 × 297 mm (A4)

Article no. 723385

Leica DISTO™ Family

Accessories supplied with / optional

8 Leica GZM27 Stick-On Target Plate

Target plate held in place with kneading adhesive.
Size: 45 × 100 mm.

Article no. 723774

9 Leica GZM30 Target Plate

Stick-on target plates for placing on ground markers.
Size: 274 × 197 mm.

Article no. 766560

10 Leica FTA360 Adapter

Sturdy adapter with fine adjustment for convenient and precise targeting. The adapter eases the task of targeting above all over long distances, and reduces the discrepancies to a minimum when taking indirect measurements. Especially suitable for the Leica DISTO™ D510 and D810 touch in combination with the Leica TRI 70 and TRI 100 tripods.

Article no. 799301

11 GLB30 Super Light Laser Visibility Glasses 3 in one

With three different lenses: laser visibility glasses, safety glasses and sun glasses.
Red lens glasses for improved visibility of the laser dot in bright rooms and outdoors up to 10–15 m.

Article no. 780117

Leica 3D Disto

Recreating the real world

Large room? No right angles? Skewed walls? Many details? Difficult to reach? No need to worry: The Leica 3D Disto measures everything you need. Ladder? Mobile access platform? You can leave them back at base. No tripod on hand? Makes no difference – simply place the 3D Disto on a table or the floor. Levelling up? Not necessary. Photographs for the records? No problem, the built-in camera provides the pictures.

- Handheld unit with a modern touch screen, high-resolution colour display
- Integrated camera, digital pointfinder with 8 × zoom for precise pointing over longer distances

1

1 Leica Disto 3D

The Leica 3D Disto is a robust, precisely manufactured measuring instrument. A highly accurate combination of distance and angle measurements determine the precise position of each point targeted with the integral camera and captured with the laser beam. In short, the Leica 3D Disto detects the location and the height of the target point.

Article no. 784357

Leica 3D Disto

Accessories supplied with / optional

Windows License for Leica 3D Disto Software for operation systems Microsoft Windows XP, Windows 7 and Windows 8 (Pro). Plus 3rd party software interface. Single license, valid for one Leica 3D Disto.

2 Leica 3D Disto Windows Licence

Article no. 784472

The Leica 3D Disto is the perfect measuring tool for taking the measurements of complex interiors, facades etc. Hidden and inaccessible points are easily measured. Three dimensional as-built projects can be recorded by a single person and subsequently processed as a 3D file in your design software. This electronic template can also be fed directly into a CNC machine and utilised for precision cutting, this saves time and money particularly where expensive materials are concerned it is essential to keep waste to a minimum. The Leica 3D Disto has been designed for the craftsman and is easy-to-use.

Features of goniometer (Hz/V)	Range of measurement	Horizontal 360°; vertical 250°
	Accuracy	5", equates to 1.2 mm @ 50 m
Features of laser distance meter	Type	Coaxial, visible red laser
	Range of measurement	0.5—50 m
	Laser class	2
	Laser type	650 nm; < 1 mW
	Laser dot (at distance)	10 m: ~7 mm × 7 mm / 30 m: ~9 mm × 15 mm
Tie distance accuracy (3D) Combination of angle and distance		@ 10 m / @ 30 m / @ 50 m Approx. 1 mm / 2 mm / 4 mm
Tilt sensor	Self-levelling range	±3°
	Accuracy	10", equates to 2.5 mm @ 50 m
Digital pointfinder	Zoom (magnification)	1×, 2×, 4×, 8×
	Field of view (@10m)	1×: 3.40 m × 2.14 m 2×: 1.70 m × 1.07 m 4×: 0.85 m × 0.54 m 8×: 0.42 m × 0.27 m
Circular level setting accuracy*		1°/mm
Communication	Cable	USB: Micro-B USB and type A, WLAN
	Wireless	SD card, range: 50 m (depending on environment)
	Data format	Import DXF; export DXF, TXT, CSV, JPG
Attachment		5/8" thread
Environmental conditions	Operating temperature range	3D Disto: –10 °C to 50 °C handheld unit: –10 °C to 50 °C
	Storage temperature	3D Disto: –25 °C to 70 °C handheld unit: –25 °C to 70 °C
	Water and dust protection	3D Disto: IP 54 (IEC 60529) handheld unit: IP 5x
	Moisture	Max. 85 %, non-condensing
Remote control (IR)	Range	50 m (depending on environment)
	Communication	Infrared (IR)

*Accuracy is specified at 20 °C.

Leica

Line & Point Lasers

Set-up, switch on and start working!

Leica Lino lasers project lines or points to millimetre accuracy, making it easier for you to get the job done right.

Lino lasers automatically compensate within a range of ± 4 degrees, so you can set-up, switch on and start working. Top quality optics and proven accuracy ensure that the projected lines give you a reference line that you can trust. Lino lasers are so simple to understand and operate, providing you with the flexibility to complete any interior application that require you to level, align, plumb or square.

16–17 Leica Lino Family

Lino P3

1 **Leica Lino P3**

Target plate, magnetic mulifunction adapter, alkaline batteries (type AA, 3 × 1.5 V), pouch. Plumbing, setting out right angles, aligning, transferring measured points.

Article no. 777067

1

Lino P5

2 **Leica Lino P5**

Target plate, magnetic multifunction adapter, alkaline batteries (type AA, 3 × 1.5 V), pouch. Plumbing, setting out right angles, aligning, transferring measured points.

Article no. 777068

2

Lino L2

3 **Leica Lino L2**

Target plate, magnetic multifunction adapter, ball adapter for tripod, alkaline batteries (type AA, 3 × 1.5 V), carrying pouch. Horizontal aligning, vertical aligning, exact 90 degrees angle, aligning at an angle.

Article no. 757225

3

Lino L2+

4 **Leica Lino L2+**

Target plate, magnetic multifunction adapter, alkaline batteries (type AA, 4 × 1.5V), pouch. Horizontal aligning, vertical aligning, exact 90 degrees angle, aligning at an angle.

Article no. 783711

4

Lino L2P5

5 **Leica Lino L2P5**

Target plate, magnetic multifunction adapter, alkaline batteries (type AA, 4 × 1.5V), pouch. Up, down, right, left, vertical and horziontal beam direction.

Article no. 777069

5

Lino L360

6 **Leica Lino L360**

Target plate red, mini tripod adapter, international charger with 4 plugs. Vertical, 360 degrees, horizontal beam direction.

Article no. 790509

6

Technical Data	Lino P3	Lino P5	Lino L2	Lino L2+	Lino L2P5	Lino L360
Range	Up to 15 m*					Up tp 30 m*
Levelling accuracy @ 5 m	±1.5 mm		±1 mm	±1.5 mm		
Self-levelling range	4° ±0.5°					3.5° ±0.5°
Accuracy of plumb point @ 5 m	±1.5 mm		–		±1.5 mm	
Accuracy of horizontal line @ 5 m	–		±1.5 mm			
Vertical accuracy @ 3 m line length	–		±0.75 mm			
Beam direction	Up, down, forward	Up, down, forward, right, left	Vertical, horizontal	Vertical, horizontal	Vertical, horizontal, up, down, right, left	Vertical, 360°, horizontal
Laser type	635 nm, laser class II					
Protection class splash water/dustproof	IP 54					IP 65
Battery	Type AA 3×1,5V			Type AA 4×1,5V		NiMH battery pack (recharge-able)
Weight without batteries	310 g	320 g	321 g	370 g		1009 g
Warranty	2 years / 3 years when registered within 8 weeks after purchase					

* depending on lighting conditions

Leica Lino Family Accessories

7 Leica Detector RVL 100

An acoustic signal and a visual signal are provided for finding the line outdoors.

Article no. 784962

8 Wall Bracket

Wall and ceiling adapter with 1/4" screw, of universal application thanks to screw fastening.

Article no. 758839

9 CLR290 Clamp Rod

With mounting platform.

Article no. 761762

10 TRI 100 Tripod

Professional tripod with easy fine adjustment for DISTO™ and all Linos.

Article no. 757938

11 Belt Pouch for Lino L2

Article no. 767202

Roteo 35G
HI
LASER

Interior Lasers

Strong performance on all levels

Leica Roteo rotating lasers are truly multi-talented performers. Whether on ceilings or walls, on the floor or on a tripod – they allow you to work precisely on many indoor and outdoor tasks in which levelling or aligning is required.

20–21 Leica Roteo Family

Leica Roteo 35

The all-in-one rotating laser

The Leica Roteo 35 impresses everyone with its powerful features and complete set of accessories for every application, especially for interior works. The wall mount bracket allows convenient motorised control of the laser beam height by the combined remote control/detector or by manual adjustment.

1 Leica Roteo 35

Leica Roteo 35 WMR rotating laser, motorised wall mount, RRC350 combined remote control/ detector unit with clamp, 9V battery for the combined unit, battery holder for alkaline batteries, rechargeable batteries, international charger, red target plate, red laser glasses.

Article no. 765752

1

Leica Roteo 35G

Top visibility and working distance

The Leica Roteo 35G has all the characteristics of the Leica Roteo 35. In addition, it has a green laser beam for better visibility in very bright conditions and over long distances. The pioneering green laser beam is four times more visible to the human eye. So you have the best possible visibility.

2 Leica Roteo 35G

Leica Roteo 35G rotating laser, motorised wall mount, RRC350G combined remote control/ detector unit with clamp, 9V battery for the combined unit, battery holder for alkaline batteries, rechargeable batteries, international charger, green target plate, green laser glasses.

Article no. 772787

2

Leica Roteo 20HV

The ideal entry level model

The Leica Roteo 20HV is the ideal rotating laser for basic users. Its easy-to-understand keypad is intuitive to operate. The package includes a complete set of accessories for interior works with remote control, wall mount bracket and target plate.

3 Leica Roteo 20HV

Leica Roteo 20HV rotating laser, manual wall mount bracket, RC350 remote control, battery (AA) for the remote control, battery holder for alkaline batteries, red target plate, red laser glasses, batteries for laser.

Article no. 772789

3

Technical Data	Roteo 35	Roteo 35G	Roteo 20HV
Range	Up to 150 m radius with laser receiver		
Self-levelling accuracy	±3 mm at 30 m		
Automatic self-levelling laser	Horizontal, vertical		
Self-levelling range	±4.5°		
Rotation speed	Variable 0, 150, 300, 450, 600 rpm		
Scanning angle	Variable between 2° and 36°		
Wall mount bracket	Motorised		Manual
Dimensions laser (H × W × D)	189 × 136 × 208 mm (without wall mount bracket)		
Weight with batteries	1.7 kg		
Battery types	Alkaline D cells, 2 × 1.5 V or rechargeable battery pack (NiMH)		Alkaline D cells, 2 × 1.5 V
Battery life	50 hours (rechargeable), Up to 160 hours (alkaline batteries)	25 hours (rechargeable), Up to 40 hours (alkaline batteries)	Up to 160 hours (alkaline batteries)
Warranty	2 years / 3 years when registered within 8 weeks after purchase		

Leica Roteo Accessories

4 R250 Laser Detector with Clamp for Roteo 20HV/35

For locating the red reference laser beam.

Article no. 772793

RRC350 Combined Remote Control/ Detector with Clamp for Roteo 20HV/35

For locating the red reference laser beam.

Article no. 762771

5 RC350 Remote Control

Article no. 762770

6 CTP106 Aluminium Tripod

With shoulder strap, fast clamps and bubble, min. working height 84 cm, max. extension 246 cm (incl. extendible center column), with mm-scale, exchangeable rubber feet.

Article no. 768033

7 CET103 Dome-Head Aluminium Tripod

Professional, multifunctional aluminium elevator tripod with shoulder strap, fast clamps and bubble, min. working height 84 cm, max.extension 246 cm (incl. extendible center column), with mm-scale, exchangeable rubber feet.

Article no. 768033

4

5

6

7

8 Leica Roteo 35 Package

Leica Roteo 35 WMR rotating laser, motorised wall mount, RRC350 combined remote control/ detector unit with clamp, 9V battery for the combined unit, battery holder for alkaline batteries, rechargeable batteries, international charger, red target plate, red laser glasses.

Article no. 765752

Leica Roteo 35G Package

Leica Roteo 35G rotating laser, motorised wall mount, RRC350G combined remote control/ detector unit with clamp, 9V battery for the combined unit, battery holder for alkaline batteries, rechargeable batteries, international charger, green target plate, green laser glasses.

Article no. 772787

Leica Roteo 20HV Package

Leica Roteo 20HV PackageLeica Roteo 20HV rotating laser, manual wall mount bracket, RC350 remote control, battery (AA) for the remote control, battery holder for alkaline batteries, red target plate, red laser glasses, batteries for laser.

Article no. 772789

8

Swiss Technology
RUGBY 840
icon
X
Y
HI

Construction Lasers

Whether it's general construction, pipe laying, machine control, or interior walls and ceilings, our lasers are built to handle any environment.

All construction lasers are of high technology and high precision tools. Compare these features and you'll see why our construction lasers set the standard for durability and value. Leica Geosystems lasers are waterproof, that means all critical components are completely protected from all wet weather conditions.

Construction-tough components have all undergone rigorous testing to assure long life under harsh conditions.

24–25 Leica Rugby 800 Series

26–27 Leica Rugby 600 Series

Leica Rugby 810

Levelling made easy

Leica Rugby 810 – A one-button, self-levelling, horizontal laser (single axis, manual slope when used with the A240 Manual Slope Adapter).

1

1 Rugby 810 Package with Rod Eye 140, Classic Receiver

Rugby 810 with carrying case, Rod Eye 140, Classic receiver and rechargeable Lithium-Ion batteries.

Article no. 807269
Additional packages available.

Leica Rugby 820

Unbeatable with slopes

Leica Rugby 820 – An accurate, easy-to-use, self-levelling, horizontal laser with manual grade control. The 820 can be used with the Rod Eye 180 for automatic slope setting using the Smart Target feature.

2

2 Rugby 820 Package with Rod Eye 160, Digital Receiver

Rugby 820 with carrying case, Rod Eye 160, Digital receiver and rechargeable Lithium-Ion batteries.

Article no. 790383
Additional packages available.

Leica Rugby 830

Keeps working when others stop

The Rugby 830 – An accurate, self-levelling, horizontal construction laser with extremely long range capability.

3

3 Rugby 830 Package with Rod Eye 160, Digital Receiver

Rugby 830 with carrying case, Rod Eye 160, Digital receiver and rechargeable Lithium-Ion batteries.

Article no. 790390
Additional packages available.

Leica Rugby 840

The laser that tackles it all

The Rugby 840 – A multi-purpose, self-levelling, horizontal/vertical laser. The 840 can be used with the Rod Eye 180 for automatic setting of slopes, batter boards and facade installations using the Smart Target feature.

4

4 Rugby 840 Package with RE 180 Receiver and RC400 Remote

Rugby 840 with carrying case, Rod Eye 180, Digital RF receiver, RC400 Remote and rechargeable Lithium-Ion batteries.

Article no. 790396
Additional packages available.

Technical Data	Rugby 810	Rugby 820	Rugby 830	Rugby 840
Functionality	Self-levelling horizontal, single manual slope (with slope adapter)	Self-levelling horizontal, with dual axis manual slope	Self-levelling horizontal, with dual axis manual slope	Self-levelling horizontal, vertical, 90° with dual axis manual slope
Smart Targeting		■		■
Smart Lock		■		■
Maximum temperature stability			■	
Operating range (diameter)	1.100 m (3.600 ft)	1.100 m (3.600 ft)	1.350 m (4.430 ft)	700 m (2.300 ft)
Self-levelling accuracy	±1.5 mm at 30 m (±1/16th" at 100 ft)			
Self-levelling range	±6°			
H.I. elevation alert	■	■	■	■
Rotation speeds	10 rps			0, 2, 5, 10 rps
Scanning modes				10°, 45°, 90°
Remote control / diameter				RC400 / 200 m
Laser diode type / class	635 nm / Class 2			
Dimensions (HWD)	237 × 240 × 196 mm (9.3 × 9.5 × 7.7 in)			
Weight with battery	3.0 kg (6.6 lbs)			
Batteries (alkaline / rechargeable)	Four D-cells / Li-Ion pack (A800)			
Battery life (alkaline / rechargeable)	60 hours / 50 hours @ 20°C			
Environmental standard	IP 68			
Operating temperature range	–20°C to +50°C (–4°F to +122°F)	–20°C to +50°C (–4°F to +122°F)	–20°C to +60°C (–4°F to +140°F)	–20°C to +50°C (–4°F to +122°F)
Lifetime warranty	■	■	■	■
Five year no cost warranty (with registration)	■ (two plus three)			
Two year knockdown warranty	■	■	■	■

Leica Rugby 610
One button simplicity

Leica Rugby 610 – A one-button, self-levelling, horizontal laser (single axis, manual slope when used with the A240 Manual Slope Adapter).

1 Rugby 610 Package with Rod Eye Basic Receiver

Rugby 610 with carrying case, Rod Eye Basic receiver and rechargeable Lithium-Ion batteries.

Article no. 6008610
Additional packages available.

1

Leica Rugby 620
Simple and reliable

Leica Rugby 620 – An accurate, easy-to-use, self-levelling, horizontal laser with manual grade control.

2 Rugby 620 Package with Rod Eye Basic Receiver

Rugby 620 with carrying case, Rod Eye Basic receiver and rechargeable Lithium-Ion batteries.

Article no. 6008617

Additional packages available.

2

Leica Rugby 640
Versatile inside and out

The Rugby 640 – A multi-purpose, self-levelling, horizontal/vertical laser for interior and general construction applications.

3 Rugby 640 Package with Rod Eye Basic Receiver

Rugby 640 with carrying case, Rod Eye Basic receiver and rechargeable Lithium-Ion batteries.

Article no. 6008619
Additional packages available.

3

Technical Data	Rugby 610	Rugby 620	Rugby 640
Functionality	Self-levelling horizontal, single manual slope (with slope adapter)	Self-levelling horizontal, with dual axis manual slope	Self-levelling horizontal, vertical, 90° with dual axis manual slope
Range (diameter) with RE Basic	500 m (1.650 ft)	600 m (2.000 ft)	500 m (1.650 ft)
Range (diameter) with RE 140/160	600 m (2.000 ft)	800 m (2.600 ft)	600 m (2.000 ft)
Self-levelling accuracy	±2.2 mm @ 30 m (±3/32" @ 100 ft)	±1.5 mm at 30 m (±1/16th" at 100 ft)	
Self-levelling range	±5°		
Semi-auto Grade Range			
H.I. elevation alert	■	■	■
Rotation speeds	10 rps	10 rps	0, 2, 5, 10 rps
Scanning modes			10°, 45°, 90°
Remote control / diameter			RC400 / 200 m
Laser diode type / class	635 nm / Class 2		
Dimensions (HWD)	212 × 239 × 192 mm (8.4 × 9.4 × 7.6 in)		
Weight with battery	2.4 kg (5.2 lbs)	2.6 kg (5.6 lbs)	
Batteries (alkaline / rechargeable)	Four D-cells / Li-Ion pack (A600)		
Battery life (alkaline / rechargeable)	60 hours / 40 hours @ 20°C		
Environmental standard	IP 67		
Operating temperature range	–10°C to +50°C (+14°F to +122°F)	–20°C to +50°C (–4°F to +122°F)	–20°C to +50°C (–4°F to +122°F)
Lifetime warranty	■	■	■
Three year no cost warranty (with registration)	Yes (two plus one)		

4 RC400 Remote Control

Operates with Rugby 840 / 640.

Article no. 790352

5 A280 Façade Adapter Kit

Used with Rugby 840 / 640.

Article no. 799204

6 A220 Battery Board Clamp

Used with Rugby 840 / 640.

Article no. 790432

7 A240 Manual Slope Adapter

Used with Rugby 810 / 610.

Article no. 790434

8 A200 Wall Mount Bracket

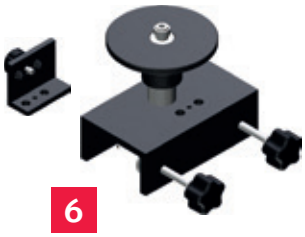
Used with Rugby 640.

Article no. 790421

9 A210 Ceiling Grid Target

Used with Rugby 640.

Article no. 732791



Rugby Power Solutions

1 A130 12 V Battery Cable, 4.5 m

Charge and run from auto battery.

Article no. 790418

2 A140 Car Adapter Cable, 1 m

Charge inside the vehicle while driving.

Article no. 797750

3 A170 Solar panel and Case

Let the sunshine keep your Rugby charged
Operates with Rugby 600 / 800 series.

Article no. 807479

Rugby Batteries

Rugby 600 and 800 series

4 A600 Li-Ion Battery Pack, 4.8 Ah (600 series)

Article no. 790415

5 A800 Li-Ion Battery Pack, 7.2 Ah (800 series)

Article no. 790416

6 A100 Li-Ion Charger (for Rugby 600/800 series)

Article no. 790417

7 A150 Alkaline Pack

Article no. 790419

Rugby 270 and 280

8 NiMH Battery Pack

Article no. 726746

9 Universal Charger (for Rugby 270 & 280)

Article no. 727165

10 Alkaline Battery Pack

Article no. 726747

Rugby 320, 410 and 420

11 NiMH Battery Pack

Article no. 739855

12 Universal Charger (for Rugby 320, 410 and 420)

Article no. 741349

Leica Piper 100/200

The world's most versatile pipe laser

Built with a rugged aluminum housing, these pipe lasers perform powerfully even in tough jobsite conditions. The Leica Piper is the only pipe laser that fits inside a 100 mm (four inch) pipe.

1

1 Piper 100 Package

Piper 100, remote, target, Li-ion battery.

Article no. 748704

Piper 200 Package with Alignmaster

Piper 200, remote, target, Li-ion battery.

Article no. 748710

Leica Piper Accessories

4 IR Remote Control

Article no. 746157

5 Target Assembly

Article no. 725858

6 Target Assembly, 100 mm / 4"

Article no. 748775

7 Trivet Assembly

Article no. 746158

4

5

6

7

Technical Data	Piper 100 / 200
Laser type	635 nm (red), laser class 3R
Laser output	4.75 mW maximum
Working range	200 m (650')
Grade range	–10% to +25%
Self-levelling range	–15% to +30%
Line movement	6 m at 30 m (20' at 100')
Battery type*	Lithium-Ion, 7.4 V/3.8 Ah
Operation/charge	40 h/4 h
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Dimensions (diameter × length)	96 × 267 mm (3.8 × 10.5")
Weight	2 kg (4.4 lbs)
Construction	Cast aluminium
Environmental standard	IPX8
Wireless remote	Front, up to 150 m (500') Back, up to 10 m (35')

* Battery life is dependent upon environmental conditions

Rugby Receivers

1 Rod Eye Basic and Bracket

Simple, affordable, good value.

Article no. 769811

2 Rod Eye 140 Classic and Bracket

Standard receiver with arrow display.

Article no. 789923

3 Rod Eye 160 Digital

Great receiver with digital readout.

Article no. 789924

4 Rod Eye 180 Digital RF

Digital receiver with Smart functions
Used with the Rugby 820 / 840.

Article no. 789926

Technical Data	Rod Eye Basic	Rod Eye 140 Classic	Rod Eye 160 Digital	Rod Eye 180 Digital RF
Smart Targeting, Smart Lock				■
Working diameter (laser dependent)	600 m (2.000 ft)	1.350 m (4.430 ft)		
Detection window	36 mm (1.4")	120 mm (5.0")		
Digital readout / height			■ / 90 mm (3.5")	
Digital readout / units			mm, cm, in, frac, ft	
Detectable spectrum	600 nm to 800 nm			
Automatic shutoff	10 minutes			
Audio volumes	High / Low / Off	High / Low / Off	High / Med / Low / Off	
Arrow display	Five channels	Nine channels	Fifteen channels	
Detection accuracies			Very fine ±0.5 mm (±0.02") Fine ±1 mm (±0.04") Medium ±2 mm (±0.08") Coarse ±3 mm (±0.12") Very Coarse ±5 mm (±0.20")	
LED display		■	■	■
Anti-strobe protection		■	■	■
Memory, last beam strike		■	■	■
Beam finding, double beep		■	■	■
Laser low battery indicator		■	■	■
Environmental standard	IP 66	IP 67		
Battery life (hours)	50+ (1x 9V type)	50+ (2x AA type)		
Dimensions (HWD)	150 × 80 × 35 mm (5.9 × 3.1 × 1.5")	173 × 76 × 29 mm (6.8 × 3.0 × 1.1")		
Operating temperature range	–20°C to +50°C (–4°F to +122°F)			
Warranty	One year	Three years		

Technical Data	LMR240	LMR360	MC200 Depthmaster
Range	250 m / 750 ft	200 m / 650 ft	200 m / 650 ft
Reception	240°	360°	200°
Capture window	15 cm / 5 in	25 cm / 9.75 in	21 cm (8.3 in)
Accuracy (fine)	1.5 – 6 mm / 1/16 to 1/4 in	6 mm / 1/4 in	±4 mm (±1/6 in)
Accuracy (coarse)	10 – 15 mm / 3/8 to 9/16 in	12 mm / 1/2 in	±12 mm (±1/2 in)
Environmental standard	IP 67	IP 67	IP 67
Battery type	3 × AA batteries	NiMH rechargeable	NiCd rechargeable (NiMH Q3/14)
Battery life	120 – 160 hours	30 hours	› 48 hours
Weight	1.9 kg (4.8 lbs)	1.8 kg (4 lbs)	2.4 kg (5.3 lbs)
Mounting	Magnetic	Magnetic / Clamps	Magnetic / Clamps
Remote display		■	
Remote range		30 m / 100 ft	

Leica Depthmaster

Depth indication system

The Leica Depthmaster reception area is 200°. The intensity of the LED cluster of indicator lights can be seen even on the brightest of days and indicates the on grade position relative to the plane of laser light. With its patented internal verticality control system, grade control will be more accurate as verticality is a prerequisite for precise measurements.

1

2

1 Depthmaster Excavator Receiver with Magnetic Bracket

Package includes Depthmaster with carrying case, battery pack NiMH for Depthmaster, magnetic bracket, charger and user manual.

Article no. 742440

2 Depthmaster Excavator Receiver with Clamp-on Brackets

Package includes Depthmaster with carrying case, battery pack NiMH for Depthmaster, clamp-on bracket (2×), charger and user manual.

Article no. 742438

LMR 240

240° machine receiver

The LMR 240 receiver provides accurate grade information for all visual machine control applications, with 240° reception from any rotating laser.

3

3 LMR 240

LMR 240 with magnetic mount, carrying case and batteries.

Article no. 773569

LMR 360

360° machine mounted receiver

Built-in vertical indicator monitors angle of the stick, signalling if it's plumb or under or overextended. Vertical position ensures consistent and accurate grade readings, saving money by reducing over or under cutting.

4

LMR 360R with Clamps and LMD360R Remote

LMR 360 with mounting clamps, carrying case, NiMH batteries, charger and LMD 360R remote.

Article no. 6003352

4 LMR 360R with Magnets and LMD360R Remote

LMR 360 with magnetic mounts, carrying case, NiMH batteries, charger and LMD 360R remote.

Article no. 6003353

LARAG
RUGBY 28

Grade Lasers

Leica Geosystems offers grade lasers suitable for jobs of any size, large or small. They can be used for applications requiring accurate grade control such as building pads, parking lots and site preparation.

The Rugby 670 and 680 are semi-automatic lasers designed for the contractor that works mostly with flat work, but occasionally requires to level to a slope.

The Rugby 270 and 280 are fully automatic grade lasers for level, single and dual slopes. The Rugby 280 has the additional capability to work in the laying down position for vertical plane set-ups.

The Rugby 320, 410 and 420 are heavy duty, fully automatic grade lasers for level, single and dual slopes designed for larger applications and increased stability over time and temperature.

34–35 Leica Rugby 670 / 680

34–35 Leica Rugby 270 / 280

36–37 Leica Rugby 320 / 410 / 420

Leica Rugby 670
Semi-automatic, single slope laser

The Rugby 670 is a semi-automatic, single slope laser designed for the contractor that does mostly flat work, but occasionally needs to create a single slope such as a driveway.

1

1 Rugby 670 Package with Rod Eye Basic Receiver

Rugby 670 with carrying case, Rod Eye Basic receiver and rechargeable Lithium-Ion batteries.

Article no. 6008621
Additional packages available.

Leica Rugby 680
Semi-automatic, dual slope laser

The Rugby 680 is a semi-automatic, dual slope laser designed for the contractor that does mostly flat work, but occasionally needs to create a slope in two axes such as a small parking area.

2

2 Rugby 680 Package with Rod Eye Basic Receiver

Rugby 680 with carrying case, Rod Eye Basic receiver and rechargeable Lithium-Ion batteries.

Article no. 6008623
Additional packages available.

Leica Rugby 270SG
Fully automatic, single slope laser

The Rugby 270SG is a fully automatic, single grade laser for the general construction contractor that needs a level or single slope for flat work, site preparation, septic installation, trenching and more.

3

3 Rugby 270SG Package with Rod Eye 160, Digital Receiver

Rugby 270SG with carrying case, Rod Eye 160 Digital receiver and rechargeable NiMH batteries.

Article no. 6003544
Additional packages available.

Leica Rugby 280DG

Fully automatic, dual slope laser

The Rugby 280DG is a multipurpose laser "Plus" with fully automatic, dual grade capability. It has a bright red beam, plumb beam, scan mode, horizontal and vertical self-levelling, plus dual grade up to 15% in both axes. Available with a two-way remote control.

4 **Rugby 280DG Package with Rod Eye 160, Digital Receiver**

Rugby 280DG with carrying case, Rod Eye 160 Digital receiver and rechargeable NiMH batteries.

Article no. 6003552
Additional packages available.

4

Technical Data	Rugby 670	Rugby 680
Functionality	Self-levelling horizontal, with dial-in, single axis, semi-auto slope	Self-levelling horizontal, with dial-in, dual axis, semi-auto slope
Semi-auto grade range	±8% SG	±8% DG
Range (diameter) with RE Basic	600 m (2.000 ft)	
Range (diameter) with RE 140/160	800 m (2.600 ft)	
Self-levelling accuracy	±1.5 mm @ 30 m (±1/16" @ 100 ft)	
Self-levelling range	±5°	
H.I. elevation alert / Bump alert	■	
Rotation speeds	10 rps	
Laser diode type / class	635 nm, Class 2	
Battery life (alkaline / li-ion)	60 hours / 40 hours @ 20°C	
Environmental standard	IP 67	
Lifetime warranty	■	
Three year no cost warranty (with registration)	■ (two plus one)	

Technical Data	Rugby 270	Rugby 280
Functionality	Fully automatic, self-levelling grade laser with dial-in, single axis slope	Fully automatic, self-levelling grade laser with dial-in, dual axis slope
RF remote capable (radius)		100 m (300 ft)
Semi-auto grade range	±15% SG	±15% DG
Range (diameter)	700 m (2,300 ft)	
Self-levelling accuracy	±1.5 mm @ 30 m (±1/16" @ 100 ft)	
Self-levelling range	±5°	
H.I. elevation alert / Bump alert	■	
Rotation speeds	5, 10 rps	0, 2, 5, 10 rps
Scan modes		10, 45, 90°
Laser diode type / class	635 nm, Class 2	636 nm, Class 3R
Battery life (alkaline / NiMH)	70 hours / 40 hours @ 20°C	
Environmental standard	IP 67	
Lifetime warranty	■	
Knockdown warranty	■ two years	
Five year no cost warranty (with registration)	■ (two plus three)	

* Accuracy is defined at +25°C
** Battery life is dependent upon environmental conditions

Leica Rugby 320SG

The toughest players on big fields

Making the grade is what the Leica Rugby is all about. Whether your work requires level, single or dual grades and high accuracy over a long distance range, the Leica Rugby's extensive features will ensure both material and labour savings, keeping you on target to increase your bottom line.

The Leica Rugby 320SG is a fully automatic single grade laser for level and single slope applications.

1

1 Rugby 320SG Package with Rod Eye 160, Digital Receiver

Rugby 320SG with carrying case, Rod Eye 160 Digital receiver and rechargeable NiMH batteries.

Article no. 6003517
Additional packages available..

Leica Rugby 410DG

The toughest players on big fields

The Leica Rugby 410DG is a fully automatic dual grade laser for level, single and dual slope applications.

2

2 Rugby 410DG Package with Rod Eye Plus

Rugby 410DG with carrying case, Rod Eye 160 Digital receiver and rechargeable NiMH batteries.

Article no. 6003522

Leica Rugby 420DG

The toughest players on big fields

The Leica Rugby 420DG is a fully automatic dual grade laser for level, single and dual slope applications. It is best suited for agriculture applications where long range, accuracy and temperature stability is required.

3

3 Rugby 420DG Package with Rod Eye 160, Digital Receiver

Rugby 420DG with carrying case, Rod Eye 160 Digital receiver and rechargeable NiMH batteries.

Article no. 6003530
Additional packages available.

Technical Data	Rugby 320SG	Rugby 410DG	Rugby 420DG
Applications (trades & tasks)	General Construction, Civil engineering, Installing septic and gravity flow pipes for drainage, Machine control, Agricultural applications such as land levelling or tilling		
Working range (diameter)	900 m	800 m	1100 m
Accuracy	±1.5 mm @ 30 m		
Self-levelling	Horizontal + Grade		
Grade capability	–5 to +25% in one axis	–5 to +25 % in either axis (–5 to +15 % in both axes)	–5 to +25 % in either axis (–5 to +15 % in both axes)
Environmental standard	IP 57		
Operating temperature	–20°C to +50°C		
Weight	5 kg		
Warranty	Manufacturer's warranty: Lifetime No cost period: Two years Extended warranty: Up to three years (purchased)		

4 **RF Remote Control, MR**

Operates with Rugby 280.

Article no. 768543

5 **RF Remote Control, LR**

Used with Rugby 410 / 420.

Article no. 765668

6 **Scope and Mount Assy**

Used with Rugby 320 / 410 / 420.

Article no. 739870

4

5

6

Optical Levels

Extreme robustness, high measurement precision and an extremely competitive price. All this makes the difference! Moreover, Leica Geosystems levels are so easy-to-use, there is no need to spend time on training!

Our ergonomic optics are probably the finest in the world. Banish tired eyes forever and ensure you're really aiming accurately at the target, even in extreme light conditions.

Leica Geosystems levels can be configured to suit your work and preferences. Horizontal angles can be read in either degrees or gons, with some levels.

Just in case – some of our Leica Geosystems levels are shock resistant. So the systems can continue to be used, even after a fall.

40 Leica Jogger Series

41 Leica Runner 20 / 24

42 Leica NA700 Series

43 Leica NA2 / NAK2

Leica Jogger Series

The ideal partner for all your daily levelling tasks on site

The Jogger Series are economical levels for any construction team – carpenters, supervisors, architects etc. These job site levels are always ready for fast setting up on tripod. Coarse aiming at target with large peep sight is easy & swift, increasing your levelling work efficiency. They are easy-to-use and reliable in measurement for all levelling tasks around the job site.

Our most economical Automatic Levels designed specifically for everyday construction levelling applications.

1

1 Leica Jogger 20

Automatic level in carry case, with 20× magn.

Article no. 762263

Leica Jogger 24

Automatic level in carry case, with 24× magn.

Article no. 762264

Leica Jogger 28

Automatic level in carry case, with 28× magn.

Article no. 783739

Leica Jogger 32

Automatic level in carry case, with 32× magn.

Article no. 783740

4 CLR101 Telescopic Level Staff

Telescopic level staff 4 m, 4 sections, front side with E-graduation and back side with mm-graduation.

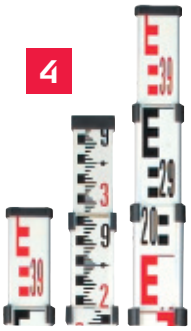
Article no. 727587

Accessories

2

3

4



2 CTP106-1 Aluminium Tripod

Light-weight with shoulder strap and side clamp screws.

Article no. 789913

3 CTP104D-1 Dome-Head

Medium duty aluminium tripod with carrying strap and fast clamps.

Article no. 790226

Technical Data	Jogger 20	Jogger 24	Jogger 28	Jogger 32
Magnification	20×	24×	28×	32×
Angle measurement	360°	360°	360°	360°
Standard deviation (per km double-run)	2.5 mm	2.0 mm	2.0 mm	2.0 mm
Shortest focusing distance	‹1 m	‹1 m	‹1 m	‹ 1 m
Dust/ Water protection	IP 54	IP 54	IP 54	IP 54
Working temperature	–20°C to +40°C	–20°C to +40°C	–20°C to +40°C	–20°C to +40°C
Weight	1.5 kg	1.5 kg	1.5 kg	1.5 kg

Leica Runner 20 / 24

Tough in use, accurate in measurement, great value

Leica Runner 20 and 24 are two robust and value-priced, automatic builder's levels. Designed to work hard on the job site, they are quick to set-up, simple to use and very reliable. The automatic compensator and the quality optics speed up measurements on site and increase accuracy. Runner is the ideal construction level for site foremen, architects, landscape gardeners and other professionals.

1

1 Leica Runner 20

Automatic level with 20× magn., standard deviation per km double-run levelling 2.5 mm.

Article no. 727585

Leica Runner 24

Automatic level with 24x magn., standard deviation per km double-run levelling 2.0 mm.

Article no. 727586

Accessories

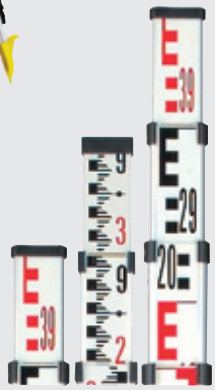
2

2 CTP104D-1 Dome-Head

Medium duty aluminium tripod with carrying strap and fast clamps.

Article no. 790226

3



3 CLR102 Telescopic Level Staff

5 m length, 4 sections, front side with E-graduation and back side with mm-graduation.

Article no. 727588

Technical Data	Runner 20	Runner 24
Magnification	20×	24×
Angle measurement	360°	360°
Standard deviation (per km double-run)	2.5 mm	2.0 mm
Dust/ Water protection	IP 55	IP 55
Working temperature	–20°C to +50°C	–20°C to +50°C
Weight	2.0 kg	2.0 kg
Warranty	1 year	1 year

Leica NA700 Series

Built for Builders, Engineers and Surveyors

Nothing stops a Leica NA700 level. A short drop onto the ground, a fall into water, vibration from heavy machinery – with a Leica NA700 level you just carry on working. No time-consuming checking or readjustment required. The 'best-in-class' optics enable you to always work as precisely as possible. What does this add up to? Reduced work downtime, thus translate into higher productivity, resulting in reliability and accuracy at an extremely reasonable price.

1

In every Leica NA700 series level lies over a century of research and development from forefathers Kern Swiss and WILD Heerbrugg. Continuous application of the most modern technology has led to Leica Geosystems of today. We offer a wide range of surveying instruments and software, with a legendary reputation for precision and reliability that has been put to the test for decades on the building site.

1 NA720

Automatic Level 20× telescopic magnification. The automatic level for all applications on the construction site.

Article no. 641982

NA724

Automatic Level 24× telescopic magnification for improved accuacy. Reliability and robustness for the demanding construction user.

Article no. 641983

NA728

Automatic Level 28× telescopic magnification, precision compensator. The all-rounder. For building or engineering surveys.

Article no. 641984

NA730

Automatic Level 30× telescopic magnification. The most precise. Meets the highest standards in construction, engineering and topographic surveys.

Article no. 641985

Accessories

2 Aluminium Tripod CTP104

Medium duty aluminium tripod with carrying strap and fast clamps.

Article no. 767710

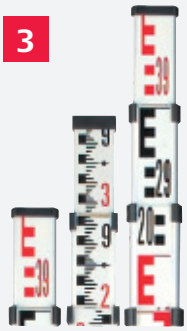
3 Telescopic Level Staff CLR102

5 m length, 4 sections, front side with E-graduation and back side with mm-graduation.

Article no. 727588

2

3



Technical Data	NA720	NA724	NA728	NA730
Magnification	20×	24×	28×	30×
Angle measurement	360°/400gon	360°/400gon	360°/400gon	360°/400gon
Standard deviation (per km double-run)	2.5 mm	2.0 mm	1.5 mm	1.0 mm
Dust/ Water protection	IP 57	IP 57	IP 57	IP 57
Working temperature	–20°C to +50°C	–20°C to +50°C	–20°C to +50°C	–20°C to +50°C
Weight	1.6 kg	1.6 kg	1.7 kg	1.7 kg
Warranty	2 years / 3 years when registerd within 8 weeks after purchase			

Leica NA2/NAK2

The classical level from Leica Geosystems

The Leica NA2 universal automatic level meets all requirements regarding precision, convenience and reliability.It was designed by surveyors and development engineers with years of experience, that know what a field instrument has to be able to do. The NA2 soon pays for itself, because it can be used for all types of surveying jobs; on building sites for routine levelling, in engineering projects and for geodetic control at all levels of accuracy.

Leica NA2 and Leica NAK2 are two universal automatic levels meet all the requirements of precision levelling.

1 NA2

Universal automatic level magnification 32× standard deviation per 0.7 mm (double-run levelling, depending on staff and technique).

Article no. 727585

Leica NAK2 (400gon)

Magnification: 32× Standard deviation per km 0.7 mm (double-run levelling, depending on staff and technique).

Article no. 727586

Leica NAK2 (360 degrees)

Same as before, but horizontal circle 360 degrees, optical scale interval 10', reading by estimation 1'.

Article no. 352038

2 GPM3 Parallel-Plate Micrometer

In container, measuring range 10 mm.

Article no. 356121

3 GOA2 Autocollimation Eyepiece

For all instruments.

Article no. 199899

4 GFZ3 Diagonal Eyepiece

Allows steep sights.

Article no. 734514

5 FOK73 40x Eyepiece

For NA2/NAK2, exchangeable against standard eyepiece.

Article no. 346475

Technical Data	NA2	NAK2
Magnification	32× FOK73 eyepiece (optional): 40×	standard: 32× FOK73 eyepiece (optional): 40×
Angle measurement	–	360°/400gon
Standard deviation (per km double-run)	0.7 mm/km (0.3 mm with parallel-plate micrometer)	0.7 mm/km (0.3 mm with parallel-plate micrometer)
Dust/ Water protection	IP 53	IP 53
Working temperature	–20°C to +50°C	–20°C to +50°C
Weight	2.4 kg	2.4 kg
Warranty	3 years	3 years

SPRINTER

Digital Levels

Levelling can be so easy with digital levels from Leica Geosystems. Push the button and heights, height differences and distances are automatically displayed. There will be no more misreading and interpretation errors in reading the staff.

It is also possible to use it as an optical level, however compared to a conventional level, the digital levels effortless, fast measurements could save your valuable time and reduce errors. Our digital levels even include additional error reducing functions such as built-in tilt sensors, preventing the system from measuring if the user operates outside the compensator range.

46–47 Leica Sprinter Series

Leica Sprinter 50

One-touch does it all

The Leica Sprinter 50 is the perfect levelling tool for daily tasks and basic work on the construction site. The user just aims, focuses the staff like an optical level, and measures by pressing one single button. The data is displayed almost instantly. Misreadings are eliminated, and error reducing functions, such as the tilt sensor, prevent the system from measuring if the user operates outside the compensator range.

1 Leica Sprinter 50

Electronic level, standard deviation 2.0 mm, includes container, strap adjustment tools, user manual, leaflet, 4× AA batteries.

Article no. 762628

1

Leica Sprinter 150 / 150M / 250M

Advanced Opportunities

For more complex construction tasks, the Sprinter 150 automatically determines delta height and reduced level. The Sprinter 150M and 250M are the perfect tools for advanced construction levelling tasks. They can store up to 1'000 measurements, and the user can download and transfer these for further calculations to a PC with Excel® easier than ever before via USB. The Sprinter's onboard software, with functionalities such as Line Levelling and Cut & Fill as well as monitoring, facilitates all levelling jobs significantly.

2

2 Leica Sprinter 150

Electronic level, standard deviation 1.5mm, includes container, strap, adjustment tools, user manual, 4× AA batteries.

Article no. 762629

Leica Sprinter 150M

Electronic level with internal memory, standard deviation 1.5 mm, includes container, strap, adjustment tools, user manual, 4× AA batteries, USB cable, CD.

Article no. 762630

Leica Sprinter 250M

Electronic level with internal memory, standard deviation 1.0mm, includes container, strap, adjustment tools, user manual, 4× AA batteries, USB cable, CD.

Article no. 762631

Multilingual Function

The Sprinter 150/150M/250M are featured with multiple languages onboard. This allows the user to choose their preferred language.

Multi lingual

Technical Data	Sprinter 50	Sprinter 150/150M	Sprinter 250M
Height accuracies	Standard deviation height measurement per 1 km double run (ISO 17123-2)		
– Electronic measurement*	2.0 mm	1.5 mm	1.0/0.7* mm
– Optical measurement	With standard aluminum E-scale/Numeral staff: 2.5 mm		
– Single staff reading	Standard deviation: 0.6 mm (electronic) and 1.2 mm (optical) at 30 m		
Distance accuracies	Standard deviation distance measurement 10 mm for D < 10 m and (Distance in m × 0.001) for D > 10 m		
Range	2 –100 m (electronic)		
Measuring modes		Single and Tracking	
Time for single measurement	<3 sec		
Compensator	Magnet damped pendulum compensator (range +/– 10 min)		
Telescope	Magnification (optical) 24×		
Data storage		Up to 1'000 points (only 150M)	Up to 1'000 points
Environmental conditions	IP 55		
Power supply	AA dry cells (4 × LR6/AA/AM3 1.5 V)		
Weight	<2.5 kg		

* 0.7 mm can be achieved with Sprinter fibre glass barcode staff

Leica Sprinter Accessories

3 **GSS 111 Dual Face Telescopic Levelling Staff**

5 m, 4 sections, Sprinter barcode/E-Scale cm-graduation, with circular bubble, in transport bag (Std. version).

Article no. 741882

GSS113 Fibreglass Dual Face Staff

Fibreglass dual face staff 3 m, 1 section, Sprinter barcode/E-scale cm graduation, with circular bubble, transport bag.

Article no. 764452

4 **CTP104 Aluminium Tripod**

Medium duty aluminium tripod with carrying strap and fast clamps.

Article no. 767710

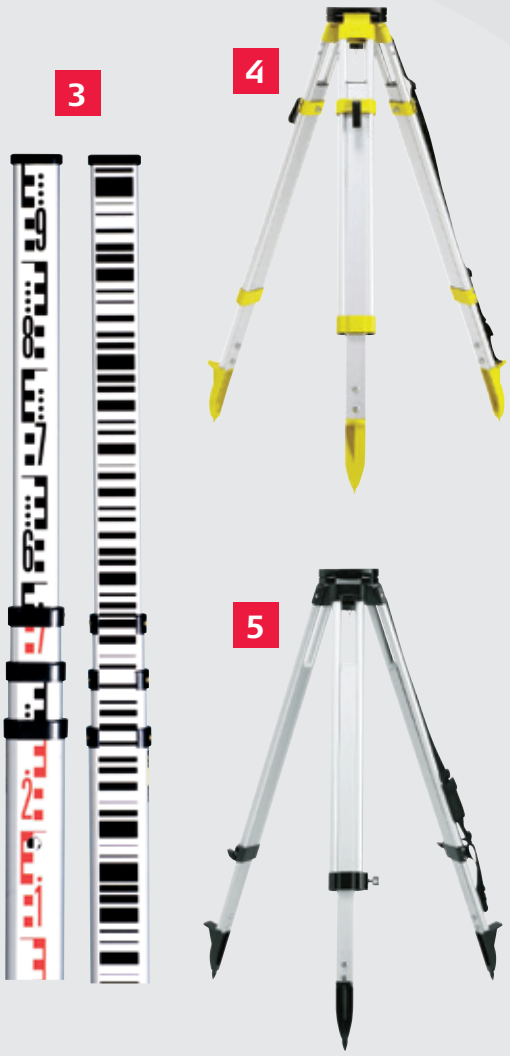
CTP104D-1 Dome-Head

Article no. 790226

5 **CTP106-1 Aluminium Tripod**

Lightweight with shoulder strap & side clamp screws.

Article no. 789913



CONFIG THEO PROG DATA
Layout
Turn
Builder
Line: 2.485 m
Offs: 5.190 m
H : -1.313 m
t 5.754 m
107.2990 g
APPL
MEASURE
SETUP
ESC

Total Stations

Still using a measuring tape or an optical theodolite?

Do you need a tool that fulfils all measuring tasks on your construction site with ease, regardless of your profession?

The Leica Builder does it all for you!

50–51 Leica Builder Series

Leica Builder Series

For anybody working on or around a site with the need of a simple, intuitive, yet innovative, long-lasting and powerful measuring tool. Regardless of your profession, the Builder will amazingly accelerate your work flow. From simple tasks to professional all-day use, the Builder Series offers a scalable product family that exactly meets your needs.

1 Builder 109 Set

Theodolite with laser plummet, 1 keyboard, tribrach, Li-Ion batterie, charger, user manual and carry case.

Article no. 772727

2 Builder 209 Set

Total Station with EDM, serial RS232 interface, laser plummet, 1 keyboard, tribrach, 2× Li-Ion battery, charger, flat prism, reflector pole, user manual and carry case.

Article no. 772729

3 Builder 309 Set

Total Station with EDM, internal memory, serial RS232 interface, USB compartment, laser plummet, 1 keyboard, tribrach, 2× Li-Ion battery, charger, flat prism, reflector pole, USB to Mini-USB transfer cable, user manual and carry case.

Article no. 772731

4 Builder 409 Set

Total Station with EDM, internal memory, serial RS232 interface, USB compartment, laser plummet, 1 alphanumeric keyboard, tribrach, 2× Li-Ion battery, charger, TrueZero prism, reflector pole, USB to Mini-USB transfer cable, user manual and carry case.

Article no. 772733

5 Builder 409 Set

Total Station with multifunctional EDM, internal memory, serial RS232 interface, USB compartment, Bluetooth®, laser plummet, 1 alphanumeric keyboard, tribrach, 2× Li-Ion battery, charger, TrueZero prism, reflector pole, USB to Mini-USB transfer cable, user manual and carry case.

Article no. 777067

Accessories supplied with / optional

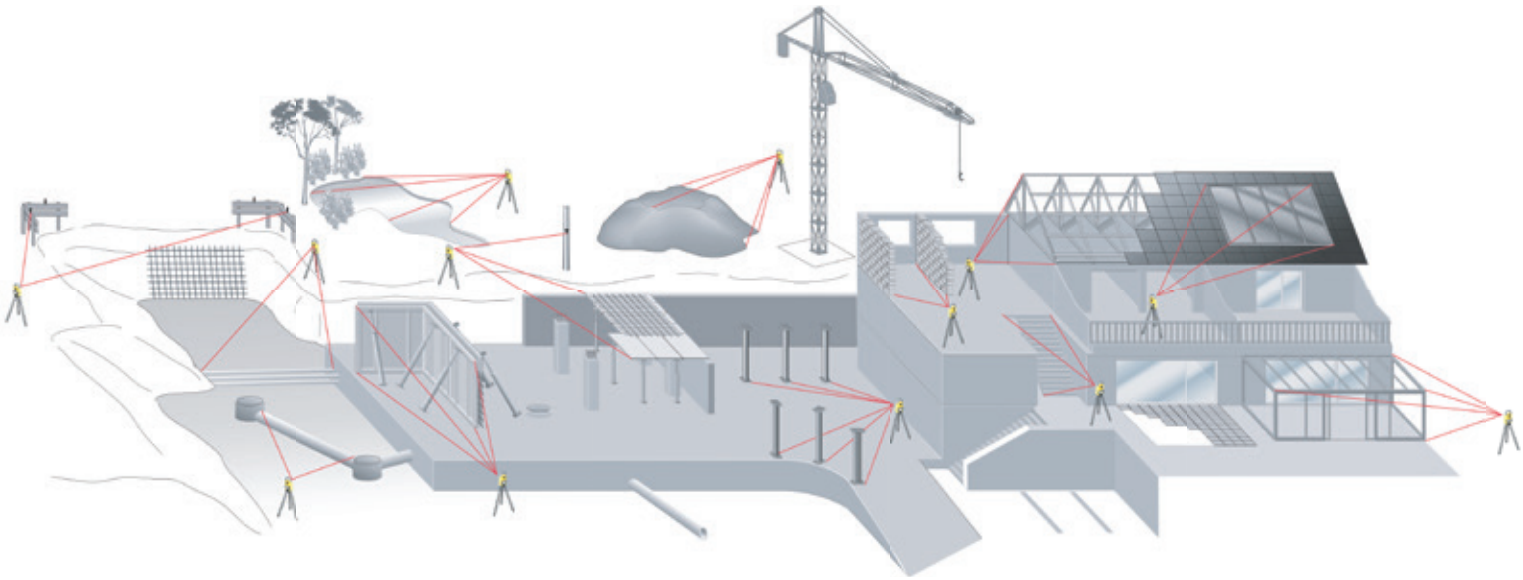
6 Connect Leica CC55 Field Controller

Load your preferred software tool and keep working as usual.

Article no. 817340

Technical Data	Builder 100	Builder 200	Builder 300	Builder 400	Builder 500
Full Power Site Software					■
Wireless communication					■
Full RedDot range					■
Prism measurement mode				■	■
MEAS / REC switch key				■	■
Cell-phone style use				■	■
Industrial USB memory stick			■	■	■
Volumes calculation			■	■	■
Data import / exportt to USB stick			■	■	■
Direct DXF download			■	■	■
1-Person station		■	■	■	■
Tracking mode		■	■	■	■
PC / Handheld interface		■	■	■	■
Laser distance measure		■	■	■	■
Control line set-up		■	■	■	■
Theft protection	■	■	■	■	■
3 languages	■	■	■	■	■
Levelling aid	■	■	■	■	■
Dual axis compensator	■	■	■	■	■
Laser plummet	■	■	■	■	■
Data Storage / Communication					
Internal memory [points]	–	–	15'000	50'000	50'000
Angle Measurement					
Accuracy/Option	9"/6"	9"/6"	9"/6"	9"/5"	9"/5"/3"
Distance Measurement					
To glass prism				500 m (3'500 m)	500 m (3'500 m)
Without reflector (90% reflective)	–	80 m	120 m	15 m	250 m
To reflective tape (60 × 60 mm)	–	250 m	250 m	15 m	250 m
Battery type / life	Li-Ion/approx. 20 hours[1]				
Environmental standard	IP 55				
Warranty	1 year / up to 3 years with valid CCP				

[1] Single meaurement every 30 seconds at 25°C with GEb221. Battery time may be shorter if battery is not new.



Michael Mäser Tiefbau
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9437 Marbach

Leica iCON

Fully understanding construction carried us beyond the ordinary. Leica iCON is more than a new product line and a software package, it enables you to enhance your performance and increase your profitability through perfecting your construction workflow.

54 Leica iCON robot 50

55 Leica iCON gps 60

56 Leica iCON builder 60

57 Leica iCON robot 60

58–59 Leica iCON controllers

Leica iCON robot 50

Robotic total station for one-person operation

Save time and increase your productivity by doing layout work and as-built checks yourself. With Leica iCON robot 50 you don't need an operator at the instrument. The robotic total station can be operated from the field controller at the prism pole, at the point you need positioning.

1 iCON robot 50 & iCON build or iCON site & CC55 or CC65/66 Controller:

iCON Robot 55, 5" Robotic Total Station & iCON build Field Software & CC55 3.5" controller with WLAN kit.

Article no. 6006677

iCON Robot 55, 5" Robotic Total Station & iCON build Field Software & CC55 3.5" controller with long-range Bluetooth® kit.

Article no. 6006679

iCON Robot 55, 5" Robotic Total Station & iCON build Field Software & CC66 7" tablet PC with long-range Bluetooth® kit.

Article no. 6009102

iCON Robot 55, 5" Robotic Total Station & iCON site Field Software & CC55 3.5" controller with long-range Bluetooth® kit.

Article no. 6006685

iCON Robot 55, 5" Robotic Total Station & iCON site Field Software & CC66 7" tablet PC with long-range Bluetooth® kit.

Article no. 6009104

All iCON Total Station kits contain these accessories:

- Total Station
- CF Card and USB stick
- Tripod
- Tribrach
- Communication handle
- Charger
- Batteries
- Prism
- Pole
- Pole clamp for controller
- Bi-pod
- Total Station carry case
- Controller with accessories
- Controller carry case
- Field Software

Leica iCON gps 60

Smart positioning on any construction site

Leica iCON gps 60 is a new construction GNSS SmartAntenna for versatile positioning tasks specifically developed towards construction needs. Featuring superior GNSS technology and various integrated communication options, it meets all requirements for reliable and precise positioning work on site.

- Superior GNSS technology for maximum accuracy and reliability. Features Leica SmartTrack+ and Smart-Check+.
- Future-proof satellite tracking supports a wide range of satellite signals (GPS L1, L2, L2C, L5 and GLONASS L1/L2, Galileo)
- All-purpose GPS solution can be used as construction site GNSS Base, Rover or Net Rover, or in supervisor vehicle
- Unique flexibility for entry level machine control mounted inside a construction machine and off machine applications

iCON gps Machine Packages:

iCON gps 60 GNSS SmartAntenna Machine Kit; includes iCG60 advanced package & machine accessories.

Article no. 6006903

The iCON GNSS kits contain these accessories:

- iCG60 GNSS SmartAntenna
- Internal Satel or Intuicom Radio (optional)
- Radio antenna (optional)
- Radio antenna adapter (optional)
- Charger
- Batteries
- Pole
- CC50 or CC60/61 controller
- Bracket for controller
- Field Software
- Carry case

1

1 iCON gps Rover Packages (build or site Field Software)

iCON gps 60 GNSS SmartAntenna Network Kit; includes iCG60 network package & iCON site Field Software & CC50 3.5" controller & pole accessories.

Article no. 6006874

iCON gps 60 GNSS SmartAntenna Performance Kit; includes iCG60 performance package & iCON site Field Software & CC50 3.5" controller & pole accessories.

Article no. 6006876

iCON gps 60 GNSS SmartAntenna Advanced Kit; includes iCG60 advanced package & iCON site Field Software & CC50 3.5" controller & pole accessories.

Article no. 6006878

iCON gps 60 GNSS SmartAntenna Vehicle Kit; includes iCG60 vehicle package & iCON site Field Software & CC60 7" tablet PC & accessories.

Article no. 6006871

iCON gps 60 GNSS SmartAntenna Network Kit; includes iCG60 network package & iCON site Field Software & CC60 7" tablet PC & pole accessories.

Article no. 6006875

iCON gps 60 GNSS SmartAntenna Performance Kit; includes iCG60 performance package & iCON site Field Software & CC60 7" tablet PC & pole accessories.

Article no. 6006875

iCON gps 60 GNSS SmartAntenna Advanced Kit; includes iCG60 advanced package & iCON site Field Software & CC60 7" tablet PC & pole accessories.

Article no. 6006879

Leica iCON builder 60

One instrument for many tasks

With Leica iCON builder 60, construction layout has never been more professional. The intuitive user interface paired with the highest quality manual total station perfects any job.

1

Leica iCON builder 60 packages:

1 Kit with iCON builder 69

9" Manual Total Station & iCONstruct start kit software onboard, 500m/1300ft reflectorless range, tribrach, 2× Li-Ion battery, charger, TrueZero prism, mini reflector pole, USB to Mini-USB transfer cable, USB memory stick, quick guide and carry case.

Article no. 6008669

Kit with iCON builder 65

5" Manual Total Station & iCONstruct start kit software onboard, 500m/1300ft reflectorless range, tribrach, 2× Li-Ion battery, charger, TrueZero prism, mini reflector pole, USB to Mini-USB transfer cable, USB memory stick, quick guide and carry case.

Article no. 6008668

Kit with iCON builder 62

2" Manual Total Station & iCONstruct start kit software onboard, 500m/1300ft reflectorless range, tribrach, 2× Li-Ion battery, charger, TrueZero prism, mini reflector pole, USB to Mini-USB transfer cable, USB memory stick, quick guide and carry case.

Article no. 6008666

Leica iCON robot 60

One instrument for many tasks

Leica iCON robot 60 perfects one-person construction layout and 3D machine control. Its high performance tracking, innovative lock & find mechanisms and software that is tailored per work step, make it the ideal partner on site. The powerful iCONstruct field software used as remote control optimises the functionality.

1

Leica iCON robot 60 packages:

1 Kit with iCON robot 62

2" Robotic Total Station & iCON build Field Software & CC55 3.5" controller with long-range Bluetooth®.

Article no. 6006791

Kit with iCON robot 62

2" Robotic Total Station & iCON build Field Software & CC66 7" tablet PC with long-range Bluetooth®.

Article no. 6006797

Kit with iCON robot 62

2" Robotic Total Station & iCON build Field Software & CC55 3.5" controller with long-range Bluetooth®.

Article no. 6006800

Kit with iCON robot 62

2" Robotic Total Station & iCON site Field Software & CC66 7" tablet PC with long-range Bluetooth®.

Article no. 6006803

All iCON robot 60 kits contain these accessories:

- Total Station, iCONstruct Start Kit onboard software
- SD Card and USB stick
- Tripod
- Tribrach
- Communication handle
- Charger
- Batteries
- Prism
- Pole
- Pole clamp for controller
- Bi-pod
- Total Station carry case
- Controller with accessories
- Controller carry case
- Field Software

Leica iCON CC55

Perfect real-time communication for easy and efficient field work

The highly rugged Leica iCON CC55 is built to enhance your performance on site; it is easy-to-use and seamlessly integrates with your hardware for perfect real-time communication.

- State-of-the-art technology
- Extremely good sunlight readable display
- Lightweight, rugged handheld
- Built-in functionalities to provide an all-in-one solution

1

1 Leica iCON CC55

CC55, rugged Windows embedded handheld 6.5 controller with 3.5" touch screen with 600 nits QuadraClear™ sunlight readable display, 1 GHz processor, 256 MB NAND flash memory, 512 MB MDDR, 8 GB extended storage, internal WLAN module, Bluetooth®, numeric keypad, 2× stylus, long-range Bluetooth® ready, Altimeter, e-compass, SiRFstar IV GPS, AC/DC adaptor, 5.6 Ah battery, USB cable, protection film, hand strap and 5 MP camera.

Article no. 817340

Applications (trades & tasks)

Machine Control, Building & Construction (Interior, Landscape, Steel workers, Civil Design, Land Fill, Earth Moving, Grade Check).

- Very robust, built for use in harsh conditions
- Various communication possibilities (Bluetooth®, WLAN, RS232) for the use with different sensors for different applications
- Long-range Bluetooth® option
- Highly productive positioning work with Leica iCON build and Leica iCON site application software

Leica iCON CC65 / 66

Versatile tablet PC's are designed to transport a user's office directly to the field.

The rugged, lightweight device has a clear and easy-to-use 7" touch screen designed to facilitate with data collection tasks on site, while at the same time communicating with the central office, real-time data transfer is made easy!
The tablet PC's are designed for the most demanding working environments and protected against hazards on a construction site, allowing them to provide optimal results in all harsh conditions.
Both tablet PC's can be used as a handheld, mounted on a tripod or detail pole for data collection.

1

- Large 7" sunlight readable touch screen display for convenient operation
- Windows 7 Ultimate Edition multilingual operating system
- Various communication possibilities (3 G modem, Bluetooth®, WLAN, LAN, USB, RS232) for the use with different sensors for different applications
- Leica iCON CC66 model features long-range Bluetooth®
- Highly productive positioning work with Leica iCON build and Leica iCON site application software

1	iCON CC65 / 66
Operating system	Microsoft Windows 7 Ultimate + Microsoft License
CPU platform	Intel® ATOM N2600 1.6 GHz Dual Core
Ram	4 GB DDR3
Mass storage	128 GB SSD
Display	7", 1024×600 resolution TFT, sunlight readable resistive touchscreen
Communications	Bluetooth® v2.1/v4.0, Built-in Modem: Quad-band HSPA+, Quad-band GSM/GPRS/ EDGE, CDMA, Wireless LAN: 802.11 b/g/n, Integrated u-blox®GPS
I/O Ports	2× USB 2.0 port, 1× RS-232 port, Gigabit LAN Ethernet, DC Power in, microSD Slot, audio out
Battery	2× Li-polymer battery, 5.2 Ah
Weight	1'100 gramm
Camera	5 Megapixel camera + LED flash
Operating temperature	–33°C to +63°C
Storage temperature	–40°C to +71°C
Humidity	95%
Rain and dust	IP 65
Drop	Free to concrete 26 drops from 1.2 m

Article no. CC65: 818193 / CC66: 818194

Leica
DIGICAT 550i

Cable Locators & Signal Transmitters

The Leica Digisystem family of locators represent the latest design in cable location technology. With state-of-the-art Digital Signal Processing (DSP) and intelligent software, the Leica Digisystem makes locating underground cables and pipes a simple and efficient task, increasing your safety on-site and ultimately saving you time and money.

62–63 Leica Digicat 500 / 600 i-Series

64–65 Leica Digicat 500 / 600 xf-Series

Signal Transmitters & Accessories

Leica Digicat i-Series locators

Safe and fast location of underground services

The Leica Digicat i-Series locators make ground surveys a simple and speedy task increasing on site safety. Defaulting to power mode, maximum sensitivity ensures operators are protected against lethal electrical cables, whilst additional modes are used to detect other buried utilities.

Applications (trades & tasks)

Excavation contractors, General contractors, Builders, Gas & Electricity companies, Cable TV companies and Pipe laying contractors.

500i

1

550i

2

600i

3

650i

4

1 Leica Digicat 500i

With its automatic controls and combined Auto mode, the Leica Digicat 500i locator has been specifically designed to reduce human error during the location process. Combined with its precise and reliable utility positioning, the Digicat 500i will prevent damage to underground utilities during excavation projects.

Article no. 50Hz 780225 / 60Hz 780226

2 Leica Digicat 550i

The Leica Digicat 550i locator has the same functionality as the Digicat 500i, with the added benefit of depth estimation, when used in conjunction with the Digitex 100t and 300t signal transmitter or Digimouse Standard Sonde in 8/33kHz mode.

Article no. 50Hz 780231 / 60Hz 780232

3 Leica Digicat 650i

The Leica Digicat 600i has the same functionality as the Digicat 500i with additional onboard memory and Bluetooth® connectivity. The onboard memory records information of how the Digicat 600i is used; this can then be uploaded by using the Logicat software via Bluetooth® connectivity and additional analysis can identify operator trends, training requirements and how the locator was used following a near miss or utility strike.

Article no. 50Hz: 795939 / 60Hz: 795940

4 Leica Digicat 650i

The Leica Digicat 650i has the same functionality as the Digicat 600i, with the added benefit of depth estimation, when used in conjunction with the Leica Digitex 100t and 300t signal transmitter or Digimouse Standard Sonde in 8/33kHz mode.

Article no. 50Hz: 795941 / 60Hz: 795944

Leica Digisystem i-Series accessories

Accessories supplied with / optional

5 Digitrace 30 m

Enables non-metallic drains,ducts or pipes, up to 150mm in diameter to be traced.

Article no. 796702

Digitrace 50 m

Article no. 796703

Digitrace 80 m

Article no. 796704

6 Signal Clamp

100 mm clamp used to apply a traceable signal to conductive buried utilities, such as cables or pipes.

Article no. 731056

7 Property Connection Cable Set

Cable Set to apply a signal from Digitex onto property power cables.

Article no. 731666 – UK version
731667 – North American version
731668 – European version
731669 – Swiss version
731670 – Australian version

8 Digimouse Standard Sonde (8 kHz & 33 kHz)

Compact dual frequency sonde used to trace drains, sewers and other non-conductive utilities.

Article no. 731053

9 Digisystem Carry Bag

Carries the Digisystem components. (i.e. Digicat locator, Digitex signal transmitter and accessories,

Article no. 740307

10 Logicat

Upload stored records from Leica Digicat 600 i-Series and 600 xf-Series to PC via Bluetooth® connectivity with the Logicat software.

Article no. 795945

11 i-Series Locator Rechargeable Battery Kit

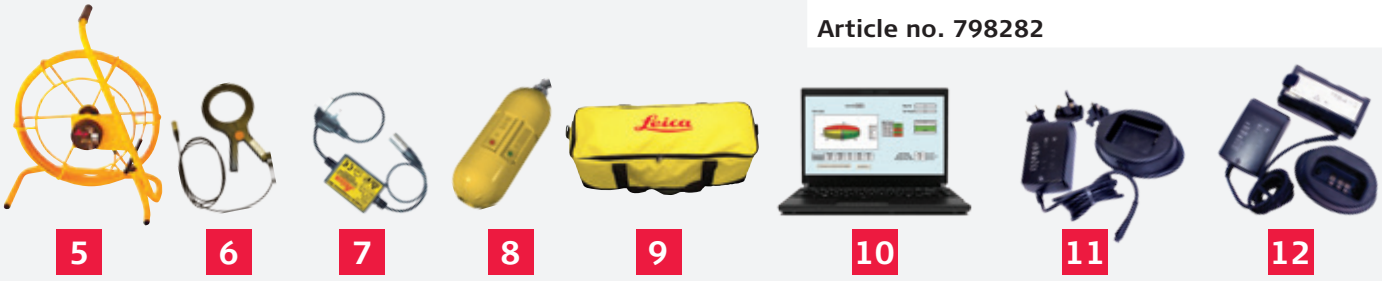
Smart Charger with UK, EU, USA adaptors, i-series Locator NiMH battery pack and charging cradle.

Article no. 798281

12 t-Series Transmitter Rechargeable Battery Kit

Charger, t-series NiMH battery pack and charging cradle.

Article no. 798282



5 6 7 8 9 10 11 12

Technical Data	Digicat 500i	Digicat 550i	Digicat 600i	Digicat 650i
Frequency / Mode	Power mode 50 Hz or 60 Hz, Radio mode 15 kHz to 60 kHz, Transmitter mode 8 kHz, 33 kHz, Auto mode = Power + radio mode			
Depth	Power to 3 m, Radio to 2 m, Transmitter mode – Dependant on transmitter or Digimouse (Sonde)			
Depth estimation		Line mode – 0.3 to 3 m Sonde mode – 0.3 to 3 m 10% of depth in line or Sonde mode		Line mode – 0.3 to 3 m Sonde mode – 0.3 to 3 m 10% of depth in line or Sonde mode
Protection	Conforms to IP 54			
Bluetooth®	Not available	Not available	Enabled	Enabled
Batteries	6 × AA alkaline (IEC LR6 supplied)			
Battery life	40 hours intermittent use (at 20°C, 68°F)			
Weight	2.7 kg including batteries			
Compatibility			CSV file compatibility program	CSV file compatibility program
Memory size			32 MB memory	32 MB memory
Capability			80 hrs of data	80 hrs of data

Leica Digicat xf-Series locators

Accurately locating buried utilities

The Leica Digicat xf-Series locators provide operators with additional 512 Hz and 640 Hz tracing modes, enabling operators to trace buried utilities over greater distances or to easily detect sewer – camera inspection systems. Additional features include Mode Lock – the locator starts in the last mode of operation and Current Measurement, used to trace and identify utilities when using the Leica Digitex signal transmitter and Extended Digimouse Standard Sonde.

500i xf **550i xf** **600i xf** **650i xf**

1 Leica Digicat 500i xf

With its automatic controls and additional tracing modes of 512 Hz and 640 Hz, the Leica Digicat 500i xf has been specifically designed to provide operators with a reliable solution to long distance tracing and the detection of camera – sewer inspection systems. Combined with its precise and reliable utility positioning, the Digicat 500i xf will trace buried utilities and sewer inspection systems with ease. The Leica Digitex 100t xf signal transmitter or the more powerful Digitex 300t xf will allow users to trace buried utilities easier than ever before.

Article no. 50Hz: 798640 / 60Hz: 798641

2 Leica Digicat 550i xf

The Leica Digicat 550i xf has the same functionality as the Digicat 500i xf, with the added benefit of depth estimation, when used in conjunction with the Leica Digitex 100t xf, Digitex 300t xf signal transmitters or Digimouse Standard Sonde with a compatible 8 kHz, 33 kHz, 512 Hz or 640 Hz output.

Article no. 50Hz: 798642 / 60Hz: 798643

3 Leica Digicat 600i xf

The Leica Digicat 600i xf has all the functionality of the Digicat 500i xf additional onboard memory and Bluetooth® connectivity. The onboard memory records information of how the Digicat 600i xf is used, this can then be uploaded by using the LOGiCAT software via Bluetooth® connectivity and additional analysis can identify operator trends, training requirements and how the locator was used following a near miss or utility strike.

Article no. 50Hz: 798644 / 60Hz: 798645

4 Leica Digicat 650i xf

The Leica Digicat 650i xf has the same functionality as the Digicat 600i xf, with the added benefit of depth estimation, when used in conjunction with the Leica Digitex 100t xf and Digitex 300t xf signal transmitters or Digimouse Standard Sonde with a compatible 8 kHz, 33 kHz, 512 Hz or 640 Hz output.

Article no. 50Hz: 798646 / 60Hz: 798647

Leica Digicat xf-Series Accessories

Accessories supplied with / optional (See page 63 for accessory images)

5 Digitrace 30 m
Article no. 796702

Digitrace 50 m
Article no. 796703

Digitrace 80 m
Article no. 796704

6 Signal Clamp
Article no. 731056

7 Digimouse Standard Sonde (8 kHz & 33 kHz)
Article no. 731053

8 Property Connection Cable Set
Article no. 731666 – UK version
731667 – North American version
731668 – European version
731669 – Swiss version
731670 – Australian version

9 Digisystem Carry Bag
Carries the Digisystem components (i.e. Digicat locator, Digitex signal transmitter and accessories).
Article no. 740307

5

6

7

8

9

Technical Data	Digicat 500i xf	Digicat 550i xf	Digicat 600i xf	Digicat 650i xf
Frequency / Mode	Power mode 50 Hz or 60 Hz, Radio mode 15 kHz to 60 kHz, Transmitter mode 8 kHz, 33 kHz, 512 Hz, 640 Hz, Auto mode = Power + radio mode			
Depth	Power to 3 m, Radio to 2 m Transmitter mode – Dependant on transmitter or Digimouse (Sonde)			
Depth estimation		Line mode – 0.3 to 3 m Sonde mode – 0.3 to 9.9 m 10% of depth in line or Sonde mode		Line mode – 0.3 to 3 m Sonde mode – 0.3 to 9.9 m 10% of depth in line or Sonde mode
Protection	Conforms to IP 54			
Bluetooth®	Not available	Not available	Enabled	Enabled
Batteries	6 × AA alkaline (IEC LR6 supplied)			
Battery life	40 hours intermittent use (at 20°C, 68°F)			
Weight	2.7 kg including batteries			
Compatibility			CSV file compatibility program	CSV file compatibility program
Memory size			32 MB memory	32 MB memory
Capability			80 hrs of data	80 hrs of data

Leica Digitex Signal transmitters

1 Digitex 100t & 300t Signal Transmitters

To be used with the Leica Digicat locators to trace the route of buried utilities and provide depth estimation, when using a locator with depth estimation capabilities.

Article no. 100t: 795946 / 300t: 798651

Digitex 100t xf & 300t xf Signal Transmitters

To be used with the Leica Digicat xf locators to trace the route of buried utilities and provide depth estimation, when using a locator with depth estimation capabilities.

Article no. 100t xf: 798648 / 300t xf: 798649

1

Technical Data	Digitex 100t xf	Digitex 300t xf
Operating transmission frequencies [1]	• 8.192 kHz • 32.768 kHz • Mixed 8/33 • 512 Hz • 640 Hz	• 8.192 kHz • 32.768 kHz • Mixed 8/33 • 512 Hz • 640 Hz
Output power	4 levels	4 levels
Induction (Max)	Up to 1W max	Up to 1W max
Direct connection	Up to 1w max when connected to a buried utility with an impedance of 300 Ohms	Up to 3w max when connected to a buried utility with an impedance of 300 Ohms
Battery type	4 x D alkaline (IEC LR20), supplied	4 x D alkaline (IEC LR20), supplied
Battery Life (Typical use at 20°C)	30 hrs intermittent use	20 hrs intermittent use
Weight	2.4 kg/5.3 lbs including batteries	2.4 kg/5.3 lbs including batteries
Dimensions	105 mm (H) x 190 mm (D) x 235 mm (W)	105 mm (H) x 190 mm (D) x 235 mm (W)
IP Rating (Case lid closed)	IP 65	IP 65
IP Rating (Case lid open)	IP 54	IP 54

[1] The Leica Digitex xf-series transmitters provide operation with additional 512 Hz and 640 Hz tracing modes.

Leica Geosystems

Nothing is really closer

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